Chesterton® 442C and SpiralTrac™ Increase Run Time in Booster Pump

Mining | Potash Slurry & Brine | Mechanical Seal



Application Info & Challenge

- Industry: Mining
- Equipment: Toyo SPL200C Dredge Booster Slurry Pump
- Product: Potash slurry and brine, 20-30 °C
- **RPM**: 900
- No access to Flush

Customer was using a double seal and tank to seal a booster pump on a dredge mining slurry application. The seal was failing after **3 to 6 months**, requiring a full pump change out and overhaul.

Solution & Result

- Chesterton 442C 90mm Single Split Seal
- SpiralTrac Version C Type I made of 316 stainless steel, part # CI3542RI4875(316)20-0394
- Custom made Adapter Plate

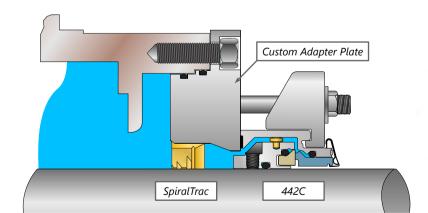
The Chesterton Specialist worked together with EnviroSeal Application Support Team to design a custom Adapter Plate that can be mounted to the Pump housing, and can also incorporate a Seal Version SpiralTrac.

This setup allows the 442C Split Seal to operate with no flush, as the SpiralTrac keeps the seal cavity clear of solids whilst promoting active fluid exchange and heat dissipation.

The seal ran for **nine months** and was replaced only after an unrelated pump issue.

This split seal configuration itself is a cost saving and allows for quick change out without disassembling the equipment.

The customer benefited from initial cost savings on seal the 442 vs the competition, longer seal life, run time, and minimal downtime to replace the seal.





Chesterton 442C Single Split Seal





Pump taken out of service every 3-6 months



Chesterton Solution Installed with 442C and SpiralTrac



12 Month MTBF



Version C Type I SpiralTrac made of 316

For more information please send an email to us at support@enviroseal.ca. We hope to hear from you!





